

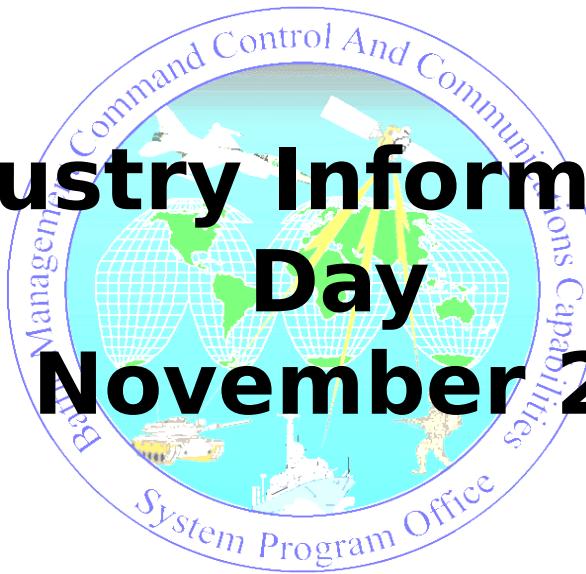
NMCC Industry Information Day

Agenda

- **0800 - 0900** REGISTRATION & SIGN-IN
- **0900 - 0915** INTRODUCTION *Ms. Veneziano-Martin
(Program Manager)*
- **0915 - 0930** OPENING REMARKS *Colonel Temple*
- **0930 - 0940** REMARKS *Colonel King (Director of AC)*
- **0940 - 1015** PROGRAM OVERVIEW *Colonel Szanto (Director of FA)*
- **1015 - 1100** TECHNICAL OVERVIEW *Sheila Hanson*
- **1100 - 1115** ACQUISITION SCHEDULE *Ms. Veneziano-Martin*
- **1115 - 1130** QUESTIONS & ANSWERS

Battle Management Command Control And Communications Capabilities

**Industry Information
Day
26 November 2002**



Presented By:
Christopher King, Col, USAF
BMC³ Director
ESC/AC
(781) 271-5020

C4ISR Enterprise

BMC³ SPO Delivering Warfighting Capability

Combat Ops

Combat Support

Business Ops

CII

BMC3 Capabilities Vision

BMC³ SPO Delivering Warfighting Capability

**Be the Battle Management
Command, Control and
Communication Community's
developer of choice for Command
and Control systems**

BMC³ SPO – ESC/AC

DAC/PEO

Aerospace Operations Center Weapon System (AOC WS)

System Program Director
Col Pete Hoene
757-225-1288

Unit Level Ops
Lt Col Mark Mol
781-271-8626

AF Weather Weapon System
Mrs. Judy Bible
781-271-8495

ESC/OL-A
Offutt AFB

Peace Shield - Saudi Arabia
Richard Fisher
011-966-498-6728

Peace Shield
Mr Lee Hayes
781-271-2078

System Program Director
Col Christopher King
781-271-5020

Dep System Program Director
Col George Bremer
781-271-8182

Battle Management & Crisis Actions Systems
Col David Temple
781-271-8248

Battle Crisis Systems
Maj LaPuma
781-271-8010

Air Sovereignty Ops
Ctr
Mr. Donahue
781-271-8344

DCAPES
Mr. Laurance Miller
781-271-8183

AEWS
Mr. Rod Young
781-271-7819

CSCS

Mr. Bard Connally
781-271-3679

Air Force Mission Support System (AFMSS)
Sys Program Director

Col Bill Nelson
781-271-7723

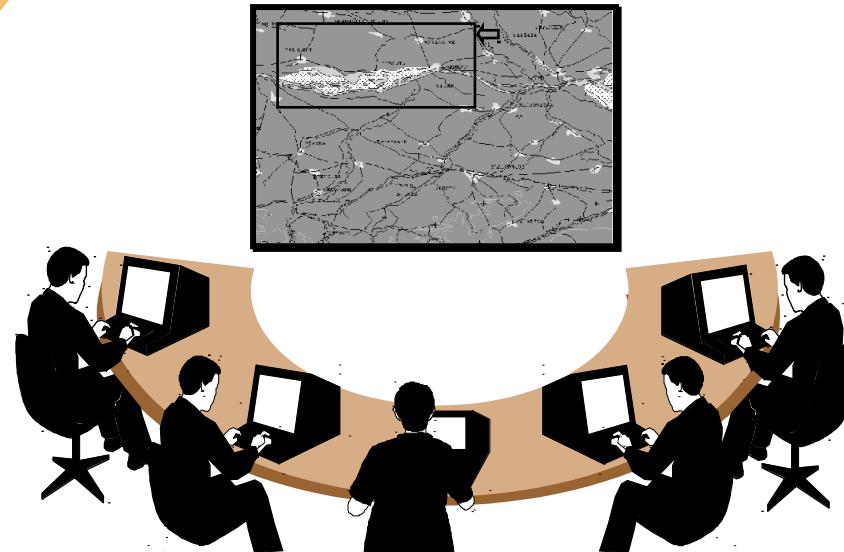
Operating Loc
Eglin AFB
Col Jake Thorn
Lt Col McClary

Info Tech & Ops
Lt Col Dean Phillips
781-271-6976

Dev Planning & Integration
Lt Col Al Duenas
781-271-7824

Contracts
Mrs. Lisa Clark
781-271-2179

Financial Management
Mrs. Michelle Rogers
781-271-8287



National Military Command Center Program Overview

November 2002

Electronic Systems Center

NMCC Vision

- Provide countries of Central And Eastern Europe with a competitively-priced, capable, national command center for crisis management
 - Encourage regional cooperation
 - Utilize civil and military resources
 - Provide countries the tools to manage crisis

NMCC Development History

- OSD decided to fund promotion of PfP countries using Warsaw Initiative Funds (WIF)
- NMCC Conference – Sofia, Bulgaria - Jun 99
 - Introduced NMCC concept to interested countries
 - Created NMCC Working Group:
 - Countries' involvement a requirement of the WG process
 - Cooperatively establish systems requirements
 - Cooperatively build systems architecture
- Working Group #1 – Predeal, Romania - Sep 99
 - Jointly developed Concept of Operations (CONOPS)
 - Included both civil and military input

NMCC Development History

- Working Group #2 - Piestany, Slovakia - Feb 00
 - Jointly developed technical architecture
 - Goal of ensuring systems architecture meets national, regional & coalition requirements
- Working Group #3 - Wroclaw, Poland - Jun 00
 - Continued to provide forum for refining program
 - Provided countries input into initial acquisition planning
- Working Group #4 - Bled, Slovenia - Oct 01
 - Reviewed technical requirements

NMCC System

- Military system with civil agency liaisons designed for rapid response to crises
- National-level joint information processing, display and distribution system to support crisis management
 - Modern national-level command center capability
 - Complement existing and planned national capabilities
- Centralized, automated capability for coordinated response to military and civil crises
- 24 hour/7 day operations
 - Augmented during times of crises
- Interfaces with Service headquarters, national military information sources [e.g., Air Sovereignty Operations Center (ASOC)], national civilian agencies and international organizations

NMCC Program Responsibilities

United States - System Details

- System hardware/software
- System integration
- Training
- Sustainment support
- Facility requirements identification
- Interface specifications
- Systems architecture hardware and software; acquired, delivered and installed system
- Software and hardware integrated into a comprehensive center
- On-site and regionally-based
- Two years of spares and maintenance

NMCC Program Responsibilities

Partner Nation - Facilities & Support

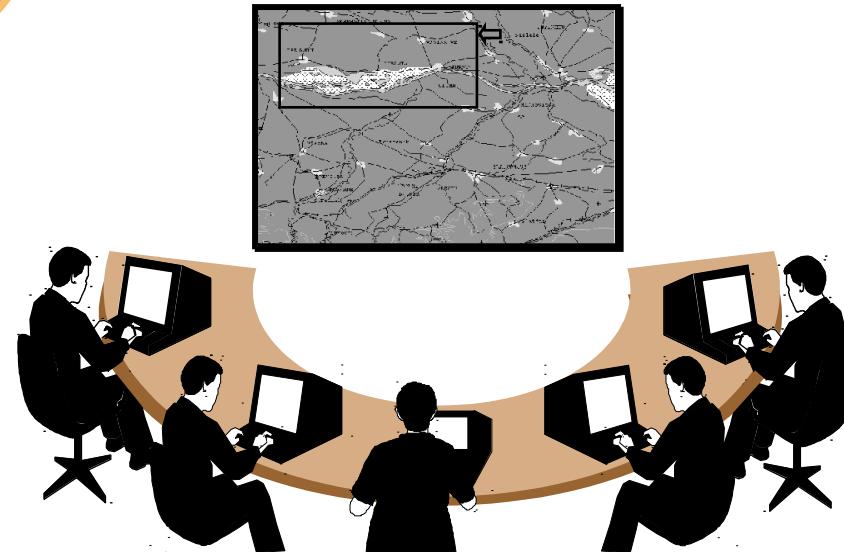
- NMCC facility and services (space, power, cooling, etc.)
- Voice and data communications for command and coordination
- Partner Nation data inputs to NMCC system in prescribed format
- Interface development/implementation for existing Partner Nation systems (hardware and software)
- Database administration and maintenance

Details

- Space within a building with power And HVAC
- Communications links, including external lines and switches
- Required data, such as, manpower, logistics, geographic
- Establish regional links (PIMS etc.)
- Establish manpower and procedures for system administration

NMCC Management Transition

- NMCC is transitioning to a new management team
 - ESC/AC - BMC3 Director - Col Christopher King
 - ESC/ACM - Program Manager - Ms Vinita Veneziano-Martin

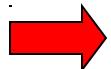


National Military Command Center System Overview

November 2002

Electronic Systems Center

Briefing Outline

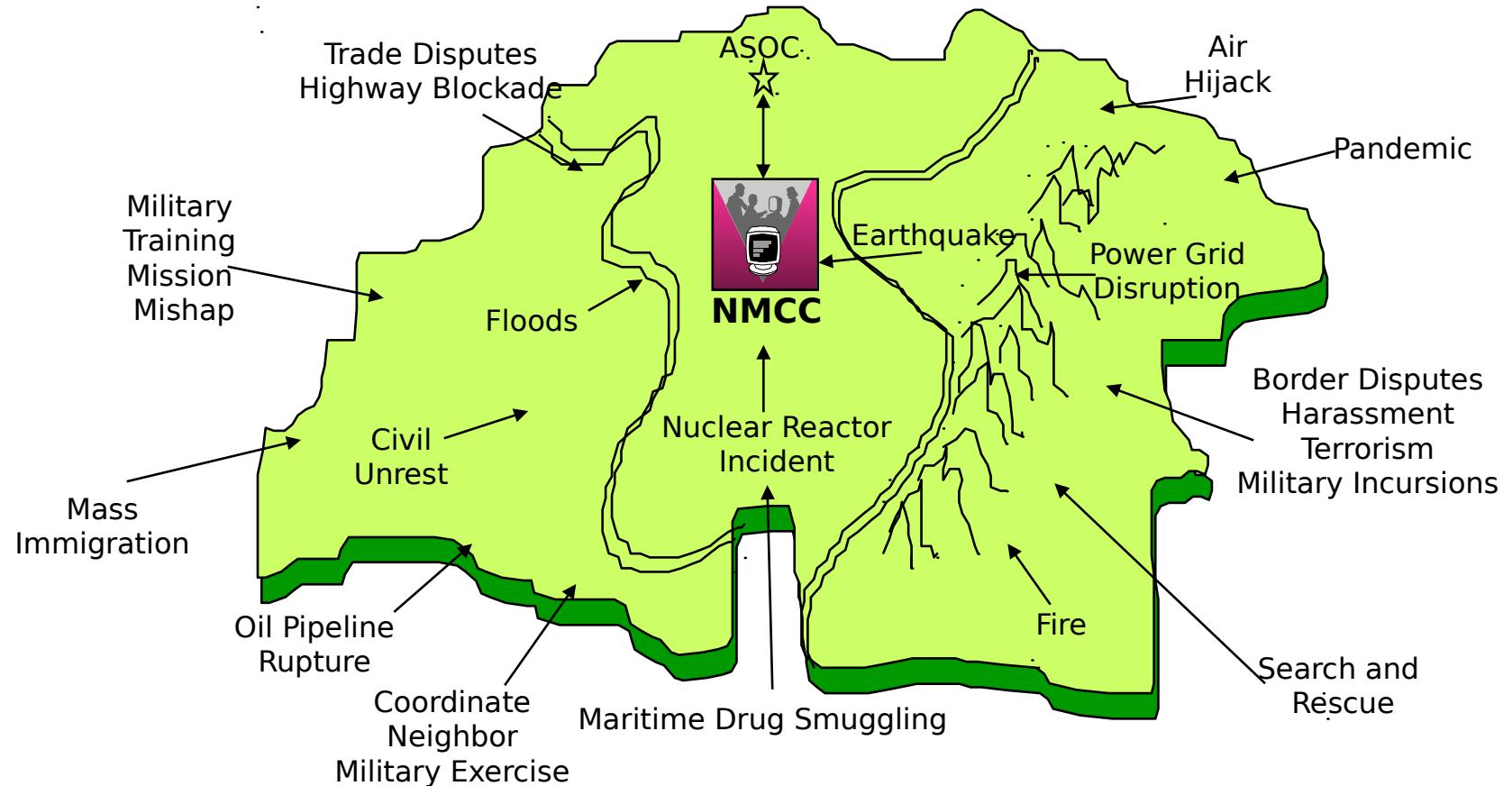


- Operational Overview
- Technical Overview

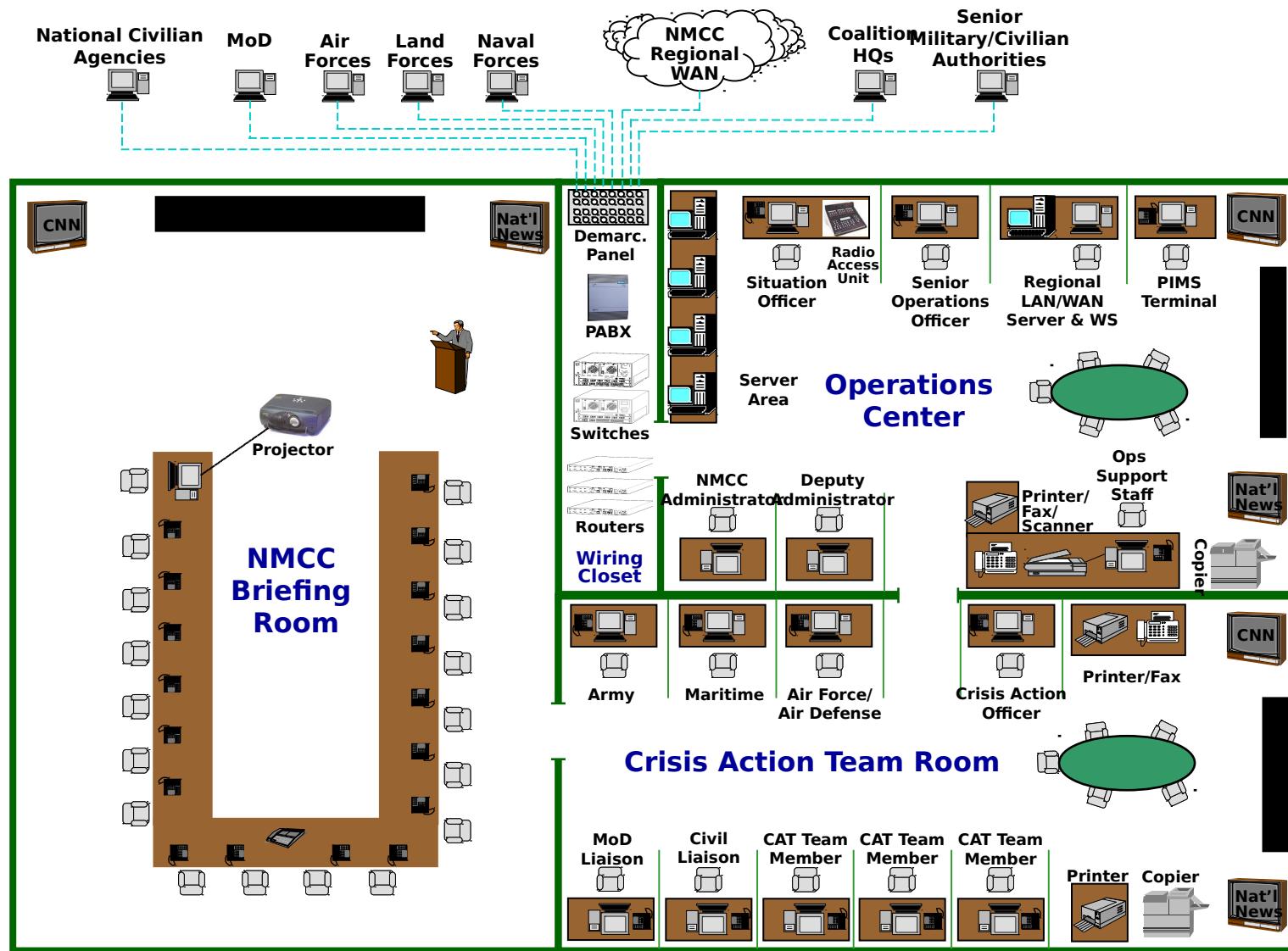
Operational Capabilities Overview

- Secure, classified centralized facility to provide national-level coordinated management for military and civil crisis response
- Operates at the national SECRET level
- Controlled and operated by the MoD, with civilian agency participation/liaisons
- Interfaces with national and regional/coalition agencies and organizations
- Operates on a 24-hour / 7-day schedule
- Staffing augmented during crisis situations

NMCC Support to Crisis Management Operations

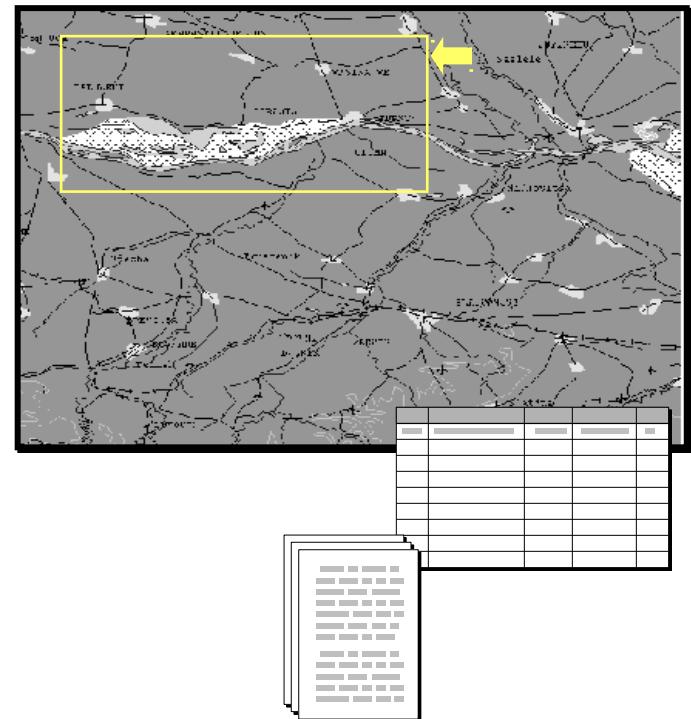


NMCC Facility Layout - Notional



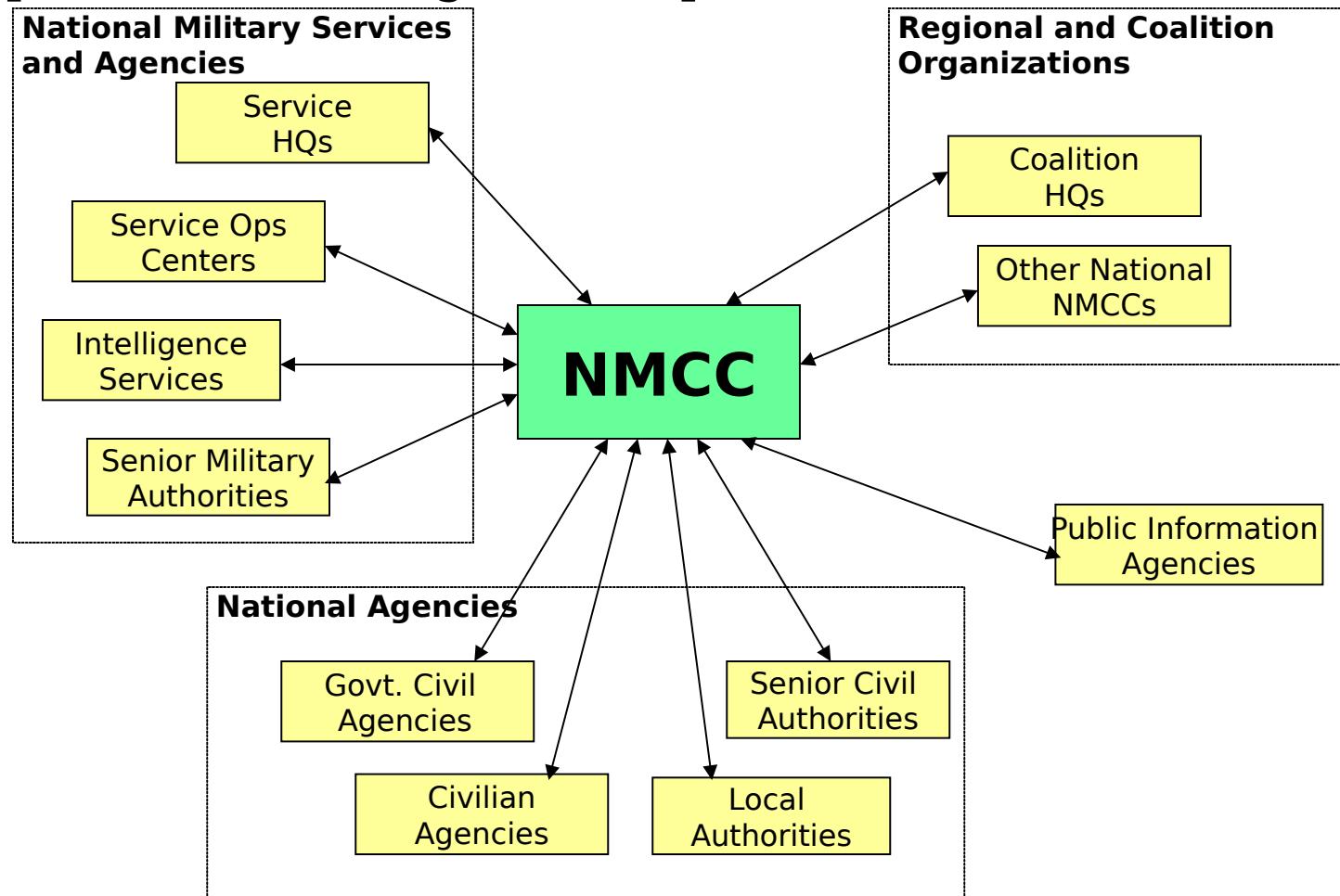
NMCC Operational Functions

- Primary functions include:
 - Situation/crisis monitoring
 - Situation/crisis assessment
 - Information distribution
 - Report generation
 - Database management
 - Coordination
 - Notification
 - Planning
 - Execution
 - After-action reporting/analysis
- Other functions supported:
 - Operator training
 - Test and Exercises

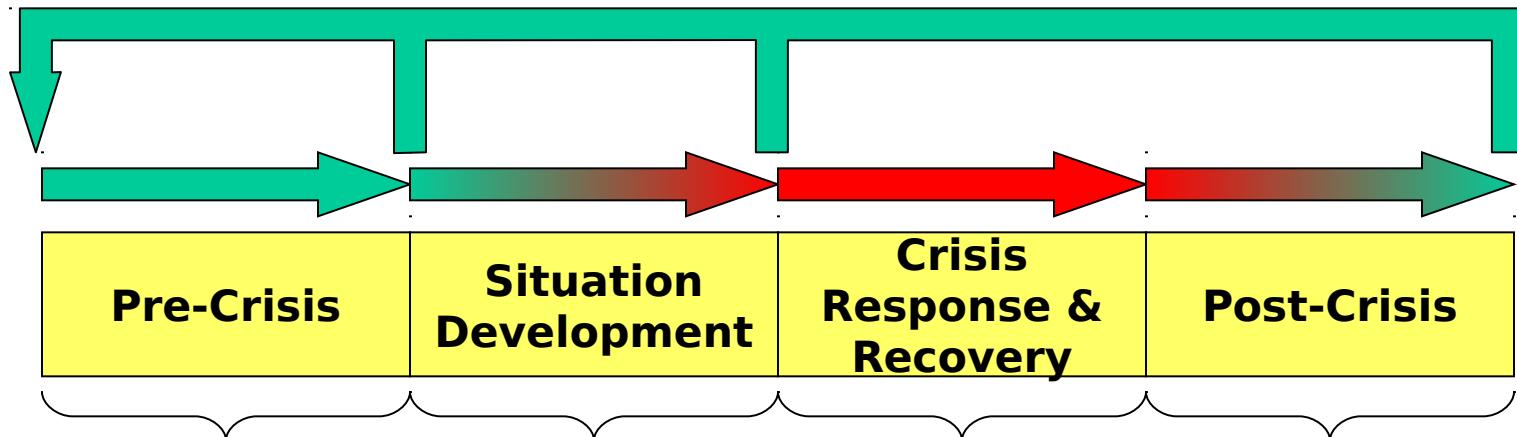


Information Sharing

NMCC works with other organizations and agencies to support crisis management operations



Crisis Management Periods



Watch-keeping operations

Situation occurs
- may be of gradually increasing concern or may require immediate response or may resolve itself before MoD support is required
- NMCC staffing may increase as

Crisis declared
- CAT created
- MoD supports crisis management operations

MoD support to crisis over
- reduction and analysis of crisis data
- NMCC staffing reduced to pre-crisis levels

Pre-Crisis Operations

- Day-to-day, no crisis, “watch-keeping” operations
- Situation monitoring - maintain up-to-date situation information
 - Information: weather, current events, planned activities, resource status, shared data updates, reference data updates, intelligence information...
 - Sources: public information sources, Services, other military/civilian agencies and organizations
 - Tools: email, fax, messaging, data link, internet/intranet, telephone, audio/visual (e.g., radio, television, VTC), remote alarms/systems
- Situation assessment - determine possibility of potential crises
 - Tools: GIS/COP, database query tools, report generator
- Status reporting - provide daily status reports
 - Tools: graphical and textual report generation tools, briefing presentation system, email, fax, internet/intranet, telephone, VTC
- In addition, NMCC will support training and exercises

Situation Development

- Potential for a crisis or an actual crisis has been identified
- Situation monitoring - maintain up-to-date situation information
 - Information: weather, current events, planned activities, resource status, alerts and warnings, shared data updates, reference data updates, intelligence information...
 - Sources: public information sources, Services, other military/civilian agencies and organizations
 - Tools: email, fax, messaging, data link, internet/intranet, telephone, audio/visual (e.g., radio, television, VTC), remote alarms/systems
- Situation assessment - determine nature and possibility of potential crises
 - Tools: GIS/COP, database query tools, report generator
- Coordination - request, gather, share information with other organizations
 - Tools: situation monitoring tools
- Notification - notify senior authorities of a potential/existing crisis
 - Tools: usually voice communications
- Status reporting - provide status reports
 - Tools: graphical and textual report generation tools, briefing presentation system, email, fax, internet/intranet, telephone, VTC

Crisis Response and Recovery

- Crisis has been declared, CAT activated
- Crisis monitoring - maintain up-to-date situation information
 - Information: weather, current events, current and planned activities, resource status, alerts and warnings, shared data updates, reference data updates, intelligence information...
 - Sources: public information sources, Services, other military/civilian/foreign agencies and organizations involved with responding to crisis
 - Tools: email, fax, messaging, data link, internet/intranet, telephone, audio/visual (e.g., radio, television, VTC), remote alarms/systems
- Crisis assessment - continue to determine nature and scope of crisis
 - Tools: GIS/COP, database query tools, report generator
- Planning - establish command relationships based on the nature of the crisis, review existing plans and COAs for applicability and recommend any changes
 - Tools: office automation tools, email, fax, messaging, internet/intranet, telephone, VTC

Crisis Response and Recovery

(concluded)

- Execution - disseminate operational decisions of MoD/General Staff; monitor execution of decisions and resulting deployment/ employment of forces; identify conflicts/issues and recommend COAs
 - Tools: email, fax, messaging, data link, internet/intranet, telephone, VTC
- Coordination - request, gather, share information with other organizations
 - Tools: email, fax, messaging, data link, internet/intranet, telephone, VTC
- Status reporting - provide status reports
 - Tools: graphical and textual report generation tools, briefing presentation system, email, fax, internet/intranet, telephone, VTC

Post-Crisis Operations

- MoD support to a specific crisis has ceased
- After-action reporting/analysis - reduce compiled data and analyze operations, generate after-action reports/lessons learned, update planning documents including joint planning documents if necessary
 - Tools: database tools, office automation tools, telephone, email, VTC
- Stand-down - reduce staffing to non-crisis level; notify military/civilian/foreign organizations of cessation of MoD support; coordinate with regional/coalition partners, if appropriate, in the termination of the crisis management support
 - Tools: telephone, email, fax, VTC

Briefing Outline



- Operational Overview
- Technical Overview

NMCC Technical Architecture Description

- TAD defines one part of overall architecture description
 - Defines and specifies codes for building a system
 - Standards, directives, guidance and recommended approaches
 - NATO C3 Technical Architecture and Common Standards Profile (CSP) are basis, augmented with U.S. Joint Technical Architecture (JTA)

Technical Architecture Functional Areas

User Interface Services	Human Computer Interface Graphics	Symbology Video Teleconferencing
Information Processing Services	Operating Systems Internationalization COP/GIS CAX/M&S	CBT/Online Training/ Online Help Data Management
Information Interchange Services	Document Data Interchange Applications Graphics Interchange Processing	Web-based Tactical Data Link
System and Network Management Services	Transport Control Protocol (TCP) Management	
Communications Services	Local Area Networks Regional Local Area Network	Wide Area Network External Interfaces
Security Services	Anti-virus Network Intrusion Detection Management Access Control	Firewall Security Key

NMCC Technical Requirements Document

Major Sections

Description

Scope

Provides overview of TRD

Applicable Documents

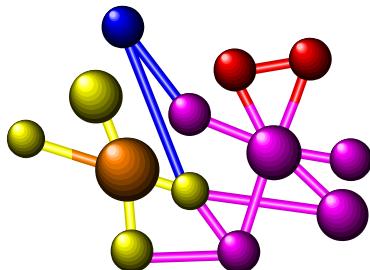
Identifies documents referenced in TRD

System Requirements

Defines requirements that NMCC must meet

Quality Assurance Provisions

Describes how NMCC requirements will be verified



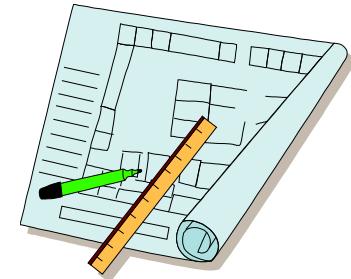
NMCC TRD - System Requirements

Major Sub-Sections

- **System Definition**
- **Performance Characteristics**
- **System and Functional Characteristics**
- **External Interfaces**
- **System Quality Factors**
- **Precedence**

Description

System overview



Defines minimum system capacities, system load

Defines how system will operate

Facility interfaces, data interfaces

Reliability, maintainability, availability, expandability

Addresses how to prioritize requirements

NMCC TRD - System Requirements: Performance Characteristics

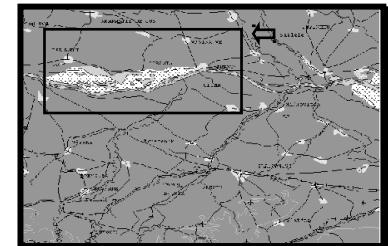
Minimum System Capacities

- System Load
- System characteristics include number of:
 - System Tracks
 - NMCC External Interfaces
 - National NMCCs connected to Regional WAN
 - Operator Workstations / System Consoles
 - Operator Actions



System Requirements - System and Functional Characteristics

- Hardware Configuration Components
 - Workstations, servers/storage devices, printers, scanners, large screen display devices / projectors, LAN infrastructure, firewall, VTC
- Display functions/capabilities
 - Display Processing and Generation
 - Preformatted Displays
 - Comment Line and Command Advisory Text
 - COP Situation and Tabular Displays, including
 - Symbology
 - Data Entry
 - Data Requirements
 - Display Performance Requirements
 - User Interaction
 - Alarms

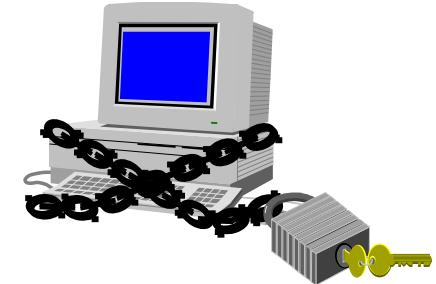


System Requirements - System and Functional Characteristics (continued)

- the Data Processing
Relational data processing, queries, database reports, track management
- Data Management, Office Automation, Web Browsing, E-Mail
- Data Recording and Retrieval
 - Data recorded always, data recorded as designated by operator
- Data Reduction
 - Mass storage media outputs, hardcopy outputs
- Test and Exercise
 - Internal simulation
- Computer Based Training
- Data Publishing

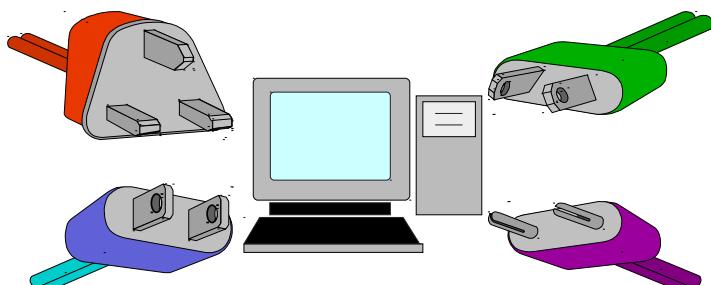
System Requirements - System and Functional Characteristics (concluded)

- System Security
 - System high mode
 - Discretionary Access Controls
 - Resource Control
 - Identification and Authentication
 - Screen Locks
 - Labeling
 - Audit
 - Specific Integrity Requirements
 - Specific Availability Requirements
 - Network Related Requirements
 - Firewalls, Web Servers, E-mail
- Performance Monitoring
- Initialization
- Fault Handling and Recovery



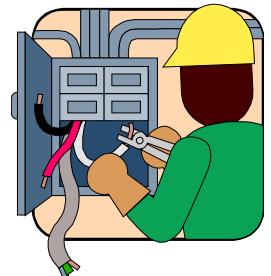
System Requirements - External Interfaces

- Facilities Interface
 - Commercial electrical service
 - Grounding system
- Data Interfaces
 - Interface Control Document (ICD)
 - Communication services standards and protocols
 - Interface categories and standards
 - Information exchange categories and protocols
 - Tactical data links
 - E-mail / messaging
 - Web
 - Database / file transfer
 - VTC

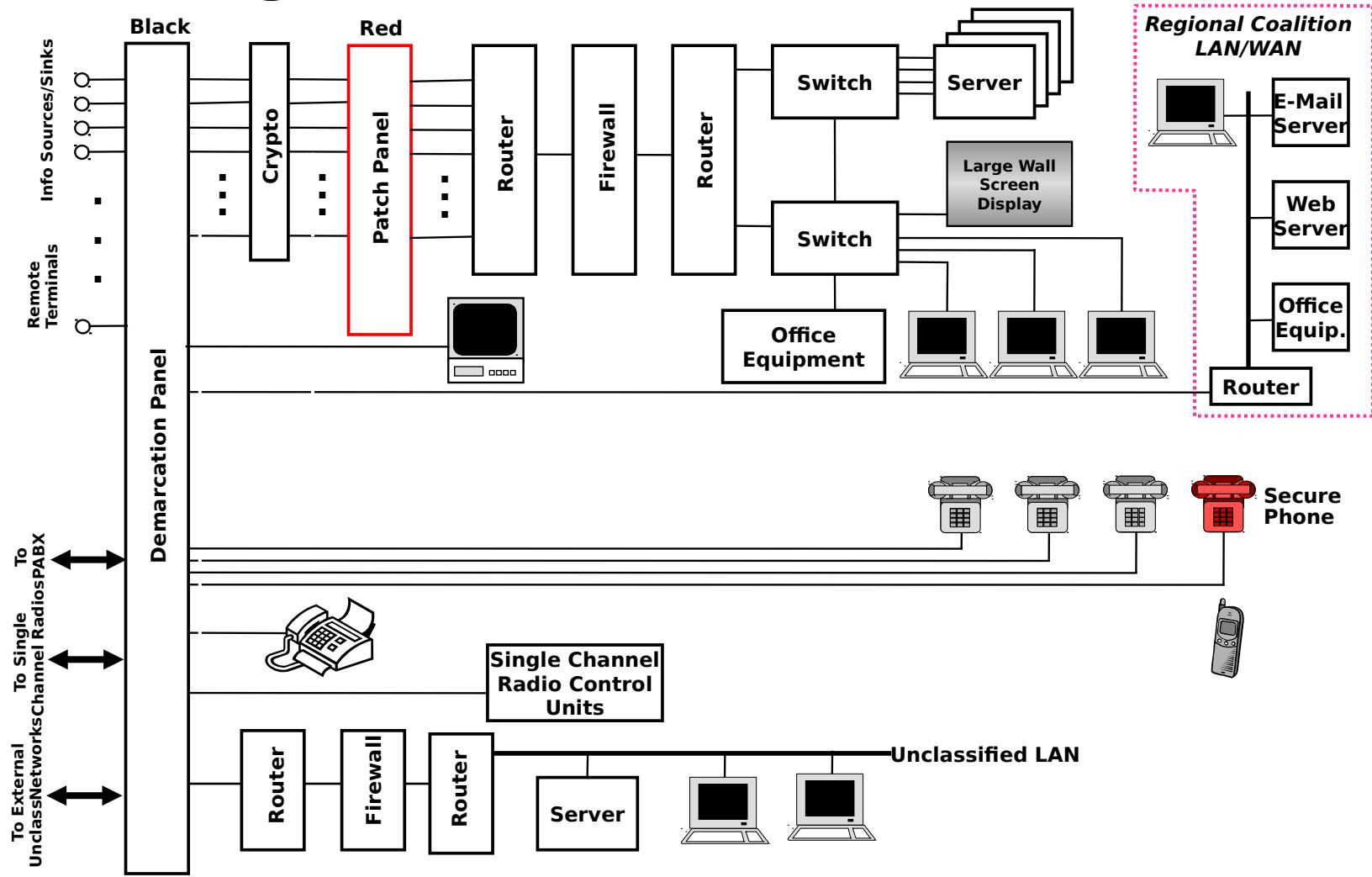


System Requirements - System Quality Factors

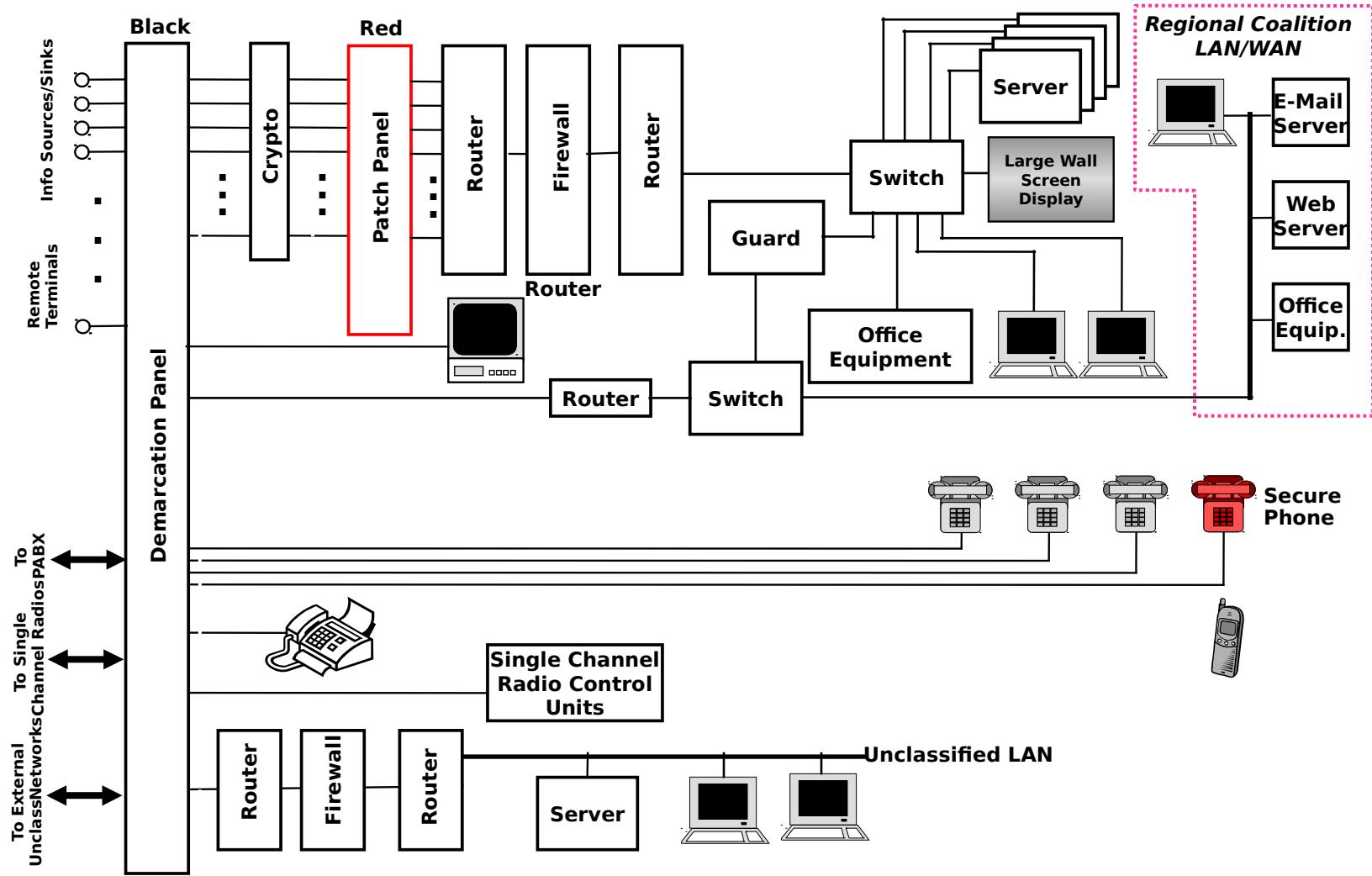
- System Reliability
 - Mean Time Between Critical Failures
 - Mean Time Between Corrective Maintenance Actions
- System Maintainability
 - Mean Time To Repair
- System Expansion and Flexibility
 - Data Processing Equipment (DPE) Growth
 - Modularity
 - System Modifications and Expandability
- System Availability
 - Operational Availability



Notional Initial System Configuration



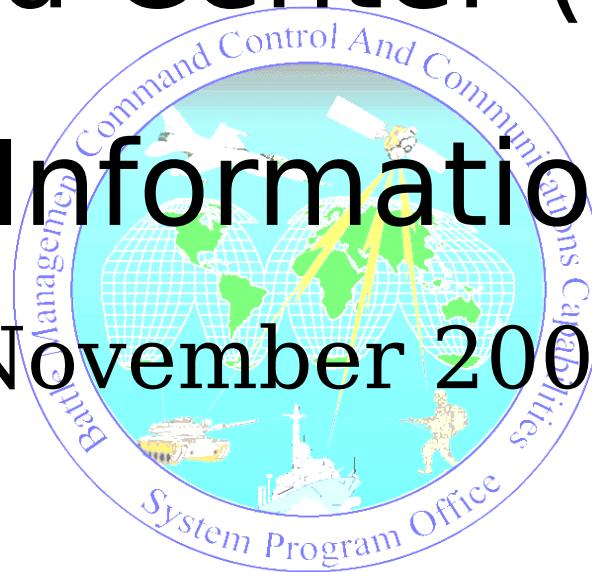
Notional Growth System Configuration



National Military Command Center (NMCC)

Industry Information Day

26 November 2002



Ms. Vinita Veneziano-Martin
NMCC Program Manager
ESC/ACM
781-271-2135

Groundrules

BMC³ SPO Delivering Warfighting Capability

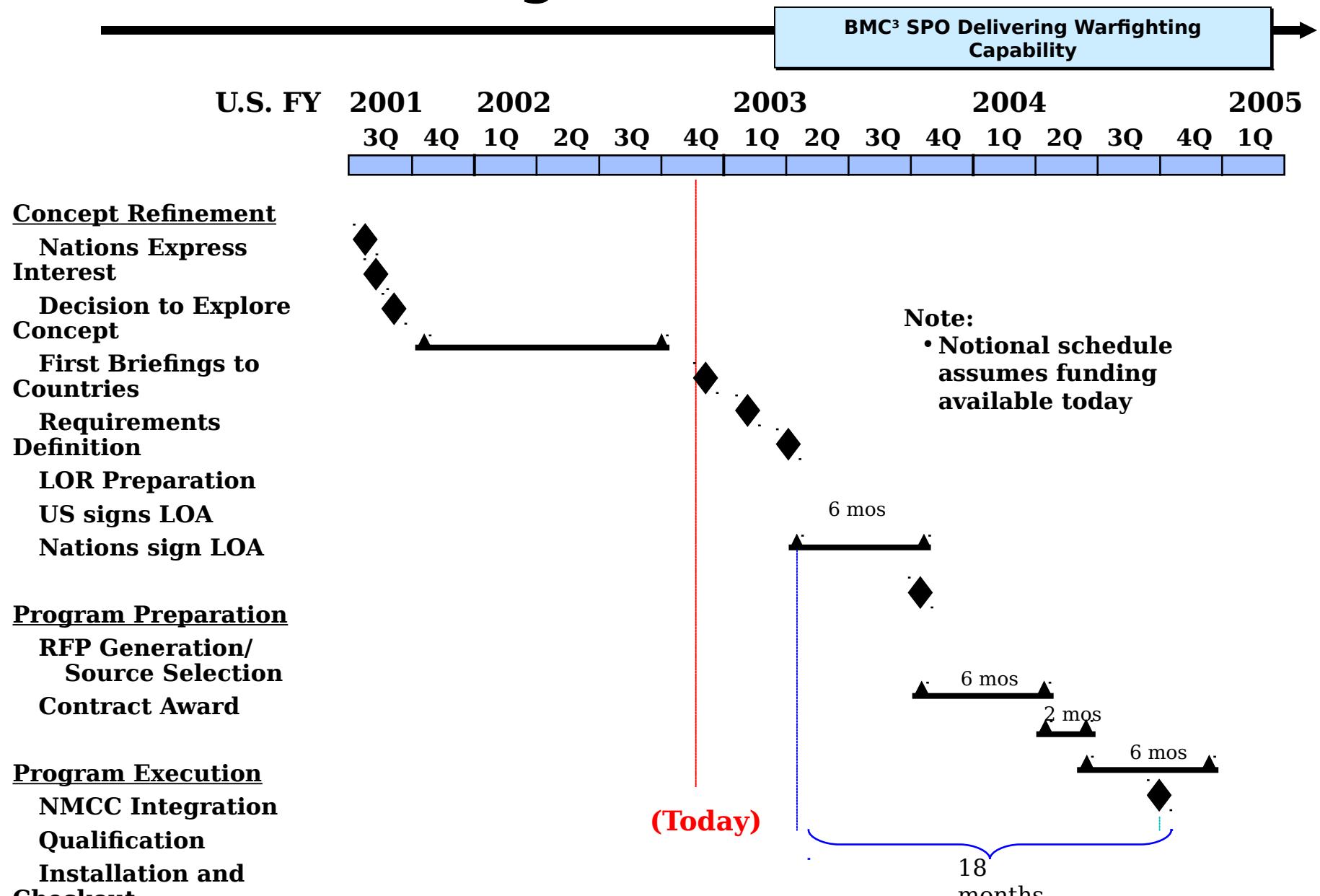
- HERBB will be principal means of communication
 - Questions & Answers
 - Announcements
 - Draft RFP
 - Any other related documentation
- Questions & Answers for today's session
 - Questions to be written on cards provided at check-in
 - Collected by PCO, Mr. Dave Conrad
 - All questions and their responses to be published on HERBB
- List of attendees for today's conference to be published on HERBB (for teaming and sub-contracting opportunities) unless you notify us not to

Notional Acquisition Schedule

BMC³ SPO Delivering Warfighting Capability

- Market Research Oct-Dec 02
- 2 LOA's Signed Nov 02
(3rd LOA: Latvia) (Expected Dec 02)
- Acquisition Strategy Feb 03
- Source Selection Jun 03
- Contract Award Jun 03

Notional Program Schedule



HERBB - NMCC

BMC³ SPO Delivering Warfighting Capability

Business Opportunities - Microsoft Internet Explorer

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Back Search Favorites History

Address http://herbb.hanscom.af.mil/esc_oppa.asp?rfp=R130 Go Links

 **Business Opportunities** **National Military Command Center**

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Acquisition Description Acquisition Information Program Manager Contracting Officer Page Manager

Register to Receive E-mail Updates on this Acquisition
View List of Companies Interested in Partnering

Make Your Company Information Public
E-mail comments to the page manager, Micheal Nading

Acquisition Description

National Military Command Center
Please refer to the Memorandum for Interested Parties for additional information.

Acquisition Information [top](#)

CBD Category: **Miscellaneous**
Solicitation Status: **Pre-Solicitation**
Acquisition Type: **Systems**
Acquisition Location: **Hanscom**
Last Update: **11/6/2002 5:31:15 PM**
Solicitation Number: **TBD**
Solicitation Release Date:
Proposal Due Date:
Contract Award Date:
NAIC Code:
Dollar Amount: **1M - 10M**

Available Documents

Pre-solicitation Documents

File Description	Download Native Format	File Size	Download Acrobat Format	File Date
EM 2002 Announcement	DOC	216,576		11/06/2002
Sources Sought	DOC	28,160		11/06/2002
National Military Command Center (NMCC) Interface Control Document (ICD) , Revision 3.0; 20 August 2001	DOC	638,976	PDF	04/12/2002
National Military Command Center (NMCC) Technical Requirements Document(TRD) , Revision 3.3; 11 April 2001	DOC	464,896	PDF	12/13/2001
Concept of Operations	DOC	486,912	PDF	12/01/2000
Technical Architecture Description	DOC	932,352	PDF	12/01/2000
MEMORANDUM FOR INTERESTED PARTIES	DOC	24,576	PDF	12/01/2000

NOTE: If you have problems downloading files, please e-mail the page manager, Micheal Nading.

Viewers for Microsoft Office 97 and several other applications are available [here](#).

Start Microsoft... Inbox - ... NMCC In... BMC3_N... Business... Business... Microsoft... Local intranet

NMCC Documents on HERBB

BMC³ SPO Delivering Warfighting Capability

File Description	File Size	File Date
EM 2002 Announcement	216,576	11/06/2002
Sources Sought	28,160	11/06/2002
National Military Command Center (NMCC) Interface Control Document (ICD), Revision 3.0; 20 August 2001	638,976	04/12/2000
National Military Command Center (NMCC) Technical Requirements Document (TRD), Revision 3.3; 11 April 2001	464,896	12/13/2001
Concept of Operations	486,912	12/01/2000
Technical Architecture Description	932,352	12/01/2000
MEMORANDUM FOR INTERESTED PARTIES	24,576	12/01/2000

Follow-on Sources Sought

BMC³ SPO Delivering Warfighting Capability

- Capabilities to be evaluated:

- Offerors NMCC Concept – according to NMCC requirement (cost, schedule, performance characteristic)
- Demonstrated experience as Lead System Integrator (LSI) of complex military systems and complex software applications
- Extensive experience with FMS program (especially in Eastern European and NATO nations)
- Extensive experience integrating complex relational data bases (especially in Eastern European and NATO nations)
- Verifiable capability to design, develop and implement:
 - Systems and applications to collect filter, enhance & store information from military and civilian source feeds
 - Interactive, multi-layered displays
 - Presentation and reporting applications
 - Separation of secure and classified information
- History of proven project management methodology and performance
- ROM cost (See Memorandum for Interested Parties on HERBB – 1 Dec 00)

Subcontracting Plans

BMC³ SPO Delivering Warfighting Capability

- Overseas sections not required in percentages for goals
- Must still adhere to DOD guidelines
 - Small Business – 23%
 - SDB – 5%
 - Women-owned – 5%
 - HUBZone – 2.5%
 - Service Disabled Veterans – 3%
 - Some variations are permissible except that SDB goal less than 5% requires approval by ESC/PK, Ms. Bonnie Taylor